



P Commands

- [show param-list, on page 3](#)
- [show password secure-mode, on page 4](#)
- [show password strength-check, on page 5](#)
- [show pending, on page 6](#)
- [show pmap-int-br interface br, on page 7](#)
- [show pmap-int, on page 8](#)
- [show policy-map, on page 9](#)
- [show policy-map interface control-plane, on page 13](#)
- [show policy-map interface type psp, on page 16](#)
- [show policy-map system, on page 18](#)
- [show policy-map type control-plane, on page 22](#)
- [show policy-map type network-qos, on page 25](#)
- [show policy-map type psp, on page 26](#)
- [show port-channel capacity, on page 28](#)
- [show port-channel compatibility-parameters, on page 29](#)
- [show port-channel database, on page 30](#)
- [show port-channel load-balance, on page 32](#)
- [show port-channel load-balance forwarding-path1 interface src-interface, on page 33](#)
- [show port-channel load-balance forwarding-path interface, on page 35](#)
- [show port-channel load-balance hardware forwarding-path interface source, on page 37](#)
- [show port-channel rbh-distribution, on page 39](#)
- [show port-channel summary, on page 40](#)
- [show port-channel traffic, on page 41](#)
- [show port-channel usage, on page 42](#)
- [show port-license, on page 43](#)
- [show port-license, on page 44](#)
- [show port-profile, on page 45](#)
- [show port-profile brief, on page 47](#)
- [show port-profile expand-interface, on page 48](#)
- [show port-profile sync-status, on page 49](#)
- [show port-profile usage, on page 50](#)
- [show port-security, on page 51](#)
- [show port-security address, on page 52](#)

- [show port-security address interface](#), on page 53
- [show port-security interface](#), on page 54
- [show port-security state](#), on page 55
- [show port index-allocation](#), on page 56
- [show port index-allocation startup](#), on page 57
- [show port naming](#), on page 58
- [show privilege](#), on page 59
- [show processes](#), on page 60
- [show processes cpu](#), on page 61
- [show processes cpu history](#), on page 62
- [show processes cpu module](#), on page 63
- [show processes log](#), on page 64
- [show processes log details](#), on page 65
- [show processes log pid](#), on page 66
- [show processes log vdc-all](#), on page 67
- [show processes memory](#), on page 68
- [show processes memory clis](#), on page 69
- [show processes memory shared](#), on page 70
- [show processes vdc](#), on page 73
- [show processes vdc cpu](#), on page 74
- [show processes vdc log](#), on page 75
- [show processes vdc log details](#), on page 76
- [show processes vdc log pid](#), on page 77
- [show processes vdc memory](#), on page 78
- [show processes version](#), on page 79
- [show pss debug](#), on page 80
- [show ptp brief](#), on page 81
- [show ptp clock](#), on page 82
- [show ptp clock foreign-masters record](#), on page 83
- [show ptp corrections](#), on page 84
- [show ptp counters interface](#), on page 85
- [show ptp packet-trace](#), on page 86
- [show ptp parent](#), on page 87
- [show ptp port interface](#), on page 88
- [show ptp time-property](#), on page 89

show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ <param_list_header_flag>
<param_list_name> <param_list_var> <param_list_type> <param_instance_header_flag>
<param_instance_name> <param_instance_var> <param_instance_val> ]
```

Syntax Description

show	Show running system information
param-list	Show param-list
param-list-name	(Optional) param list name
<i>plistname</i>	(Optional) Enter the name of the param-list
show-instance	(Optional) show instances for the param list
<i>__readonly__</i>	(Optional)
<i>param_list_header_flag</i>	(Optional)
<i>param_list_name</i>	(Optional)
<i>param_list_var</i>	(Optional)
<i>param_list_type</i>	(Optional)
<i>param_instance_header_flag</i>	(Optional)
<i>param_instance_name</i>	(Optional)
<i>param_instance_var</i>	(Optional)
<i>param_instance_val</i>	(Optional)

Command Mode

- /exec

show password secure-mode

show password secure-mode [__readonly__ { secure_mode <secure_mode_status> }]

Syntax Description

show	Show running system information
password	Password for the user
secure-mode	secure mode for changing passwords
__readonly__	(Optional)
secure_mode	(Optional) run time status about xml
<i>secure_mode_status</i>	(Optional) Run time status about secure mode

Command Mode

- /exec

show password strength-check

```
show password strength-check [ __readonly__ { operation_status <o_status> } ]
```

Syntax Description

show	Show running system information
password	Password for the user
strength-check	Strength check of password
__readonly__	(Optional)
operation_status	(Optional) run-time information about password strength-check
<i>o_status</i>	(Optional) operational status of password strength check

Command Mode

- /exec

show pending

show [pending]

Syntax Description

show	Display region configurations
pending	(Optional) Display the new mst configuration to be applied

Command Mode

- /exec/configure/spanning-tree/mst/configuration

show pmap-int-br interface br

```
show pmap-int-br interface br [ __readonly__ { [ TABLE_ifvlanstr <if-vlan-str> <if-status> [ <in-pmap-qos>
] [ <out-pmap-qos> ] [ <in-pmap-que> ] [ <out-pmap-que> ] ] } ]
```

Syntax Description

show	Show running system information
pmap-int-br	Show policy maps
interface	Show service policy on interface
br	Brief report of all policies attached to interfaces
TABLE_ifvlanstr	(Optional) all interfaces xml sessions
<i>if-vlan-str</i>	(Optional) ifindex or vlan id: xml key
<i>__readonly__</i>	(Optional)
<i>if-status</i>	(Optional) Interface/vlan status [active/inactive]: xml key
<i>in-pmap-qos</i>	(Optional) Input QoS Policy-map name: xml key
<i>out-pmap-qos</i>	(Optional) output QoS Policy-map name: xml key
<i>in-pmap-que</i>	(Optional) Input Que Policy-map name: xml key
<i>out-pmap-que</i>	(Optional) Output Que Policy-map name: xml key

Command Mode

- /exec

show pmap-int

show pmap-int { interface [<iface-list>] [input | output] [type <qos-or-q>] |

Syntax Description

show	Show running system information
pmap-int	Show policy maps
interface	Show service policy on interface
<i>iface-list</i>	(Optional) List of Interface
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Type of policy
<i>qos-or-q</i>	(Optional)

Command Mode

- /exec

show policy-map

```
show policy-map [ { [ type qos ] [ <pmap-name-qos> ] } | { type queuing [ <pmap-name-que> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_pmap <pmap-key> [ <type-spec> ] [ <yqos-or-q> ] [ <options>
] <pmap-name-out> [ <desc> ] [ TABLE_cmap <cmap-key> [ <type-cmap-spec> ] [ <xqos-or-q> ] [
<cmap-name> ] [ TABLE_action <action-key> [ <serv-pol-type> ] [ <serv-pol-name> ] [ <inner> ] [
<dlb-disable> ] [ <cos> ] [ <exp-val-imposition> ] [ <exp-val-topmost> ] [ <dscp-enum> ] [ <dscp> ] [
<prec-enum> ] [ <prec> ] [ <disc-class> ] [ <qos-group> ] [ <tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] [
<avg-rate-type> ] [ <rate-units> ] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate>
] [ <max-rate-type> ] [ <max-rate-units> ] [ <shape-max-rate> ] [ <rise-threshold-units> ] [
<fall-threshold-units> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <ooo> ] [ <size-units>
] [ <qlim-size> ] [ <qlim-enum-spec> ] [ <rdet-agg> ] [ <rdet-mode> ] [ TABLE_rdet <rdet-key> [ <rdet-values>
] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [
<rdet-cap-average> ] [ <rdet-ecn> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] ] [ <pause> <size-in-bytes>
<xoff-bytes> <xon-bytes> ] [ <priority-group-number> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [
<rem-bw-rate> ] [ <agg-policer-name> ] [ <cir-spec> ] [ <bc-spec> ] [ <be-spec> ] [ <cir-rate-units> ] [ <cir>
] [ <bc-size-units> ] [ <bc> ] [ <pir-rate-units> ] [ <pir> ] [ <be-size-units> ] [ <be> ] [ <cnf-col-cmap> ] [
<exc-col-cmap> ] [ TABLE_police <police-key> [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [
<enum-spec> ] [ <set-val> ] [ <ptmap-from> ] [ <ptmap-to> ] [ <ptmap-name> ] ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
qos	(Optional) type qos
queuing	(Optional) type queuing
<i>pmap-name-qos</i>	(Optional) policy map name (type qos)
<i>pmap-name-que</i>	(Optional) policy map name (type queuing)
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_rdet	(Optional) all WRED sessions
TABLE_police	(Optional) all police actions
<i>police-key</i>	(Optional) police actions count: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key

TABLE_action	(Optional) all actions
action-key	(Optional) Actions count: xml key
yqos-or-q	(Optional)
options	(Optional) match-first option
pmap-name-out	(Optional) Policy-map name
desc	(Optional) Description string
cmap-name	(Optional) Class-map name
xqos-or-q	(Optional)
serv-pol-type	(Optional) Type of service policy referred to
serv-pol-name	(Optional) Name of policy-map referred to within this policy-map
type-spec	(Optional) Type of policy-map specified or not
type-cmap-spec	(Optional) Type of class-map specified or not
inner	(Optional) Specifies if tunnel or inner keywords are mentioned
dlb-disable	(Optional) Disable Dynamic Load Balancing
cos	(Optional) IEEE 802.1Q Class of Service value
exp-val-imposition	(Optional) MPLS EXP value of type imposition
exp-val-topmost	(Optional) MPLS EXP value of type topmost
dscp	(Optional) DSCP in IP(v4) and IPv6 packets
dscp-enum	(Optional)
prec	(Optional) Precedence in IP(v4) and IPv6 packets
prec-enum	(Optional)
disc-class	(Optional) Discard class
qos-group	(Optional) Qos-group
tmap-from	(Optional)
tmap-to	(Optional)
tmap-name	(Optional) Table map name
ptmap-from	(Optional)
ptmap-to	(Optional)
ptmap-name	(Optional) Table map name

<i>avg-rate-type</i>	(Optional) Specifies if average shape rate is specified
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>cir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>pir-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>bc-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>be-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-mode</i>	(Optional) Random-detect mode
<i>rdet-agg</i>	(Optional) Are the params for aggregate flow
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight
<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>pause</i>	(Optional) Pause value
<i>priority-group-number</i>	(Optional) Priority group value
<i>bw-units</i>	(Optional) Bandwidth units

<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>agg-policer-name</i>	(Optional) Aggregate policer name
<i>cir-spec</i>	(Optional) Is CIR keyword specified
<i>bc-spec</i>	(Optional) Is Committed Burst keyword specified
<i>be-spec</i>	(Optional) Is Extended Burst keyword specified
<i>cnf-col-cmap</i>	(Optional) Conforming color class-map name
<i>exc-col-cmap</i>	(Optional) Exceeding color class-map name
<i>enum-spec</i>	(Optional) Is DSCP or PREC enum value specified
<i>cnf-act</i>	(Optional) Conform action (Police)
<i>exc-act</i>	(Optional) Exceed action (Police)
<i>vio-act</i>	(Optional) Violate action (Police)
<i>set-type</i>	(Optional) Type of set in police action
<i>set-val</i>	(Optional) Value of set type in police action
<i>ooo</i>	(Optional) Out-of-Order

Command Mode

- /exec

show policy-map interface control-plane

```
show policy-map interface control-plane { [ module <slot-no-in> [ class <cmmap-name> ] ] [ class <cmmap-name>
[ module <slot-no-in> ] ] } [ __readonly__ [ <scale-factor-cmd> ] <pmap-name> [ TABLE_cmmap <cmmap-key>
<cmmap-name-out> <opt_any_or_all> [ TABLE_match <match-key> { [ access_grp <acc_grp_name> ] [
redirect <opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] } + ] [
<class-off-rate> <class-drop-rate> <class-pkts> <class-bytes> ] [ [ <set_vld_flg> ] { { cos [ inner ] <cos-val>
} | { dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ { percent <cir-perc> } ] [ <bc>
<opt_kbytes_mbytes_gbytes_be> ] [ <pir> <opt_kbps_mbps_gbps_pps_pir> ] [ { percent1 <pir-perc> } ] [
<be> <opt_kbytes_mbytes_gbytes_be> ] ] [ TABLE_slot { <slot-no-out> { [ [ <conform-pkts> ]
<conform-bytes> ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit
<set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ [ [ <exceed-pkts> ] <exceed-bytes> ] { {
<opt_drop_transmit_exceed> } | { set dscp1 dscp2 table cir-markdown-map } } } ] [ [ [ <violate-pkts> ]
<violate-bytes> ] { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } } } }
} ] ] ]
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show service policy on interface
control-plane	command is for copp policy
module	(Optional) module number for statistics
class	(Optional) class-name name
cmmap-name	(Optional) Name of the class-map
pmap-name	(Optional) Name of the Policy-map
__readonly__	(Optional)
scale-factor-cmd	(Optional) Scale factor command
TABLE_cmmap	(Optional) all cmmap xml sessions
cmmap-key	(Optional) Class-map key : XML output
cmmap-name-out	(Optional) Name of the output class-map
opt_any_or_all	(Optional) Enter match-any or match-all
TABLE_match	(Optional) all match xml sessions
match-key	(Optional) Match key : XML output
access_grp	(Optional)
acc_grp_name	(Optional)

redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets
exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
<i>set_vld_flg</i>	(Optional) Set valid flag
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
TABLE_slot	(Optional) all slot-num : XML output
<i>slot-no-in</i>	(Optional) input slot no
<i>slot-no-out</i>	(Optional) output slot no
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)

<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)
dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)

Command Mode

- /exec

show policy-map interface type psp

```
show policy-map interface { [ <ifnum> ] } type psp { [ <pmap-name> [ client <clienttype> <clientID> ] ] | [
handle <ppf_id> ] } { [ class-map-list { [ <cmap-name-plc> + ] | [ class-map-handle <ppf_id1> + ] } ] } [
__readonly__ { [ <number-of-classes> ] [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> [ <cmap-name-out> ] [ TABLE_interface <interface> <byte-count>
] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show stats for interface
<i>ifnum</i>	(Optional) Interface type and number
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
class-map-list	(Optional) Class-map list
<i>cmap-name-plc</i>	(Optional) Class-map name
class-map-handle	(Optional) Class-map Handle/s
<i>ppf_id1</i>	(Optional) PPF ID
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
<i>number-of-classes</i>	(Optional) Total number of classes for which stats are returned
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name

<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_interface	(Optional) all interface xml sessions
<i>interface</i>	(Optional) Interface type and number
<i>byte-count</i>	(Optional) Byte Count Statistic

Command Mode

- /exec

show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ <desc> ] [ <xpmap-name> ] [ <xormap-name> ] [ <cos-list> ] [ <qos-group-list> ] [
<protocol> ] [ <timeout> ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <cc> ]
[ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [
<stat-en-dis-enum> ] [ TABLE_pmap <pmap-key> <pmap-inner-outer> <in-or-out> <yqos-or-q> [ <options>
] <pmap-name> [ <stat-status-enum> ] [ TABLE_cmap <cmap-key> [ <xqos-or-q> ] <match-opts>
<cmap-name> [ TABLE_match <match-key> [ <not> ] [ <inner> ] [ <cos-list> ] [ <match-cmap-xqos-or-q>
] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] [ TABLE_action <action-key> [ <set-inner> ] [ <cos> ]
[ <serv-pol-type> ] [ <serv-pol-name> ] [ <serv-pol-return-inout> ] [ <rate-units> ] [ <shape-rate> ] [
<min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [ <max-rate-units> ] [
<shape-max-rate> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <size-units> ] [ <qlim-size>
] [ <qlim-enum-spec> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<rise-threshold-units> ] [ <fall-threshold-units> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [
<rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [
<rdet-ecn> ] [ <rdet-cap-average> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] ] [ <pause> <size-in-bytes>
<xoff-bytes> <xon-bytes> ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	(Optional) Type of the policy-map
system	Active policy in the system
network-qos	(Optional) type network-qos
qos	(Optional) type qos
input2	(Optional) input policy
queuing	(Optional) type queuing
input	(Optional) input policy
output	(Optional) output policy
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xormap-name</i>	(Optional) Class-map name
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value

<i>pause</i>	(Optional) Pause value
<i>pfec-cos-list</i>	(Optional) List of class-of-service values
<i>timeout</i>	(Optional) timeout value
<i>cc</i>	(Optional) congestion control protocol
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value
<i>protocol</i>	(Optional) protocol
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
TABLE_pmap	(Optional) all pmap xml sessions
<i>pmap-key</i>	(Optional) Policy-map name: xml key
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_action	(Optional) all actions
<i>action-key</i>	(Optional) Actions count: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
TABLE_rdet	(Optional) all WRED sessions
<i>stat-en-dis-enum</i>	(Optional)
<i>in-or-out</i>	(Optional)
<i>yqos-or-q</i>	(Optional)
<i>stat-status-enum</i>	(Optional)
<i>options</i>	(Optional) match-first option
<i>pmap-name</i>	(Optional) Policy-map name
<i>pmap-inner-outer</i>	(Optional) Inner or Outer policy-map
<i>serv-pol-return-inout</i>	(Optional) Inner or Outer policy-map
<i>cmap-name</i>	(Optional) Class-map name
<i>xqos-or-q</i>	(Optional)

<i>match-opts</i>	(Optional) Type of match in class-map
<i>match-cmap-xqos-or-q</i>	(Optional)
<i>match-cmap-opts</i>	(Optional) Type of match in class-map
<i>not</i>	(Optional) Negate this match result
<i>inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos-list</i>	(Optional) List of class-of-service values
<i>match-cmap-name</i>	(Optional) class-map name
<i>serv-pol-type</i>	(Optional) Type of service policy referred to
<i>serv-pol-name</i>	(Optional) Name of policy-map referred to within this policy-map
<i>set-inner</i>	(Optional) Specifies if tunnel or inner keywords are mentioned
<i>cos</i>	(Optional) IEEE 802.1Q Class of Service value
<i>rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>min-rate-type</i>	(Optional) Specifies if minimum shape rate is specified
<i>min-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>max-rate-type</i>	(Optional) Specifies if maximum shape rate is specified
<i>max-rate-units</i>	(Optional) Units of rate - bps, kbps, mbps, gbps, ms, us
<i>prio-level</i>	(Optional) Priority if specified
<i>qlim-param-type</i>	(Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp
<i>qlim-param-val</i>	(Optional) Parameter value for qlimit
<i>qlim-size</i>	(Optional) Queue size for qlimit
<i>size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>qlim-enum-spec</i>	(Optional) Whether qlimit parameter is specified in enum or not
<i>rdet-size-units</i>	(Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>bw-units</i>	(Optional) Bandwidth units
<i>rem-bw-units</i>	(Optional) Remaining bandwidth units
<i>rem-bw-rate</i>	(Optional) Remaining bandwidth rate
<i>rdet-values</i>	(Optional) List of class-of-service values for random-detect
<i>rdet-drop-prob</i>	(Optional) Random-detect drop probability
<i>rdet-weight</i>	(Optional) Random-detect queue length weight

<i>rdet-cap-average</i>	(Optional) Random-detect cap-average
<i>rdet-ecn</i>	(Optional) Random-detect ECN
<i>rdet-burst-opt</i>	(Optional) Random-detect burst optimized
<i>rdet-mesh-opt</i>	(Optional) Random-detect mesh optimized
<i>pause</i>	(Optional) Pause value

Command Mode

- /exec

show policy-map type control-plane

```
show policy-map type control-plane [ expand ] [ { name <pmap-name> } ] [ __readonly__ [ { TABLE_pmap
<pmap-name1> [ { TABLE_cmap <cmap-name> [ <opt_any_or_all> ] [ TABLE_match <match_key> { [
access_grp <acc_grp_name> ] [ redirect <opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol
<opt_match_protocol> ] } ] [ { TABLE_set_action <set_vld_flg> { { cos [ inner ] <cos-val> } | { dscp [ tunnel
] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } } ] [ <threshold> <level> ] [ [ <policer_show_flags>
] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ percent <cir-perc> ] [ <pir> <opt_kbps_mbps_gbps_pps_pir>
] [ percent1 <pir-perc> ] [ <bc> <opt_kbytes_mbytes_gbytes_bc> ] [ <be> <opt_kbytes_mbytes_gbytes_be>
] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit <set-dscp-val>
} ] [ { set-prec-transmit <set-prec-val> } ] [ { <opt_drop_transmit_exceed> } | { set dscp1 dscp2 table
cir-markdown-map } ] [ { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } ]
] } ] } ] ] ]
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
control-plane	command is for copp policy
expand	(Optional) Display the match-criterias along with class-map
name	(Optional) policy-map name
<i>pmap-name</i>	(Optional) Name of the Policy-map
__readonly__	(Optional)
TABLE_pmap	(Optional) Table of policy-map
<i>pmap-name1</i>	(Optional) Name of the Policy-map
TABLE_cmap	(Optional) Table of class-map
<i>cmap-name</i>	(Optional) Name of the class-map
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
TABLE_match	(Optional) Table of match statement
<i>match_key</i>	(Optional) Match key : XML output
access_grp	(Optional)
<i>acc_grp_name</i>	(Optional)
redirect	(Optional)
<i>opt_match_redirect</i>	(Optional) Match criteria for redirected packets

exception	(Optional)
<i>opt_match_except</i>	(Optional) Match criteria for exception packets
protocol	(Optional)
<i>opt_match_protocol</i>	(Optional) Match criteria for protocol packets
TABLE_set_action	(Optional) Table of set action
<i>set_vld_flg</i>	(Optional) Set valid flag
<i>level</i>	(Optional) syslog severity level
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional)
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional)
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional)
<i>set-cos-val</i>	(Optional) Conform action cos val
set-dscp-transmit	(Optional)
<i>set-dscp-val</i>	(Optional) Conform action dscp val
set-prec-transmit	(Optional)
<i>set-prec-val</i>	(Optional) Conform action prec val
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional)
dscp1	(Optional)
dscp2	(Optional)
table	(Optional)
cir-markdown-map	(Optional)
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional)
dscp3	(Optional)

dscp4	(Optional)
table1	(Optional)
pir-markdown-map	(Optional)
cos	(Optional)
inner	(Optional)
<i>cos-val</i>	(Optional) Set cos val
dscp	(Optional)
tunnel	(Optional)
<i>dscp-val</i>	(Optional) Set dscp val
precedence	(Optional)
tunnel1	(Optional)
<i>prec-val</i>	(Optional) Set prec val
<i>policer_show_flags</i>	(Optional) Policer show flags

Command Mode

- /exec

show policy-map type network-qos

```
show policy-map type network-qos [ <pmap-name-nq> ] [ __readonly__ { <display-all> <desc> <xpmap-name>
<xcmap-name> <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> <pfc-cos-list> <cc>
<thresh-units> <min-thresh> <max-thresh> <drop-prob> <iod> <mtu> <set-cos> } ]
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
<i>pmap-name-nq</i>	(Optional) Policy-map name
network-qos	type network-qos
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all network-qos policy-maps
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmap-name</i>	(Optional) Class-map name
<i>pause</i>	(Optional) Pause value
<i>timeout</i>	(Optional) timeout value
<i>pfc-cos-list</i>	(Optional) List of class-of-service values
<i>cc</i>	(Optional) congestion control protocol
<i>thresh-units</i>	(Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>drop-prob</i>	(Optional) Drop Probability at Maximum Threshold value
<i>iod</i>	(Optional) IOD value
<i>mtu</i>	(Optional) MTU value
<i>set-cos</i>	(Optional) Set CoS value

Command Mode

- /exec

show policy-map type psp

```
show policy-map type psp { [ <pmap-name> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ] [
handle <ppf_id> ] [ __readonly__ { [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> <if-else-id> <cmap-id> [ class-default ] [ <cmap-name-out> ] [
TABLE_action <action-key> [ <cos-val> ] [ <src-mac-addr> ] [ <dest-mac-addr> ] [ <vlan-number> ] [
<ip-tos-value> ] [ <interface-name> ] [ action-strip-vlan ] [ action-drop-pkt ] [ divert-action ] [ copy-action ]
[ forward-normal ] [ <goto-pmap-handle> ] [ action-decrement-ttl ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
cfg-mode	(Optional) cfg-mode
<i>cfgmode</i>	(Optional) persistent/transient
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>if-else-id</i>	(Optional) If-Else ID

<i>cmap-id</i>	(Optional) Class-map ID
<i>class-default</i>	(Optional)
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_ <i>action</i>	(Optional) all action xml sessions
<i>action-key</i>	(Optional) action count: xml key
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
<i>src-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>dest-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>vlan-number</i>	(Optional) VLAN NUMBER
<i>ip-tos-value</i>	(Optional) IPv4 TOS Value
<i>interface-name</i>	(Optional) Physical Interface Name and Number
<i>action-strip-vlan</i>	(Optional) Perform the action STRIP-VLAN-ID
<i>action-drop-pkt</i>	(Optional) Perform the action Drop the Packet
<i>divert-action</i>	(Optional) Divert the packets to Controller
<i>copy-action</i>	(Optional) Copy the packets to Controller
<i>forward-normal</i>	(Optional) Forward the packets normally
<i>goto-pmap-handle</i>	(Optional) Pmap handle
<i>action-decrement-ttl</i>	(Optional) Decrement TTL on the Packet

Command Mode

- /exec

show port-channel capacity

show port-channel capacity [*__readonly__* <total> <used> <free> <percentage_used>]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
capacity	Capacity information
<i>__readonly__</i>	(Optional)
<i>total</i>	(Optional) Total resource
<i>used</i>	(Optional) Used resource
<i>free</i>	(Optional) Free resource
<i>percentage_used</i>	(Optional) Used resource in percentage

Command Mode

- /exec

show port-channel compatibility-parameters

show port-channel compatibility-parameters [*__readonly__* { <parameter> <description> } +]

Syntax Description

show	Show running system information
port-channel	Show port-channel information
compatibility-parameters	Show compatibility parameters
<i>__readonly__</i>	(Optional)
<i>parameter</i>	(Optional) Compatibility parameter
<i>description</i>	(Optional) Parameter description

Command Mode

- /exec

show port-channel database

```
show port-channel database [ interface <if0> ] [ __readonly__ TABLE_interface <interface>
<last-membership-update> <total-ports> <total-up-ports> [ <first_operational-port> ] <age-of-channel> [
<time-since-last-bundle> ] [ <last-bundled-member> ] [ <time-since-last-unbundle> ] [
<last-unbundled-member> ] [ { TABLE_member <port> <mode> <port-status> } ] [ <protocol> ] ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
database	Show port-channel database
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_interface	(Optional) Port-channel table
<i>interface</i>	(Optional) Port channel
<i>mode</i>	(Optional) channel-group mode
<i>last-membership-update</i>	(Optional) Last membership update
<i>total-ports</i>	(Optional) Total number of member ports
<i>total-up-ports</i>	(Optional) Total number of UP member ports
<i>first_operational-port</i>	(Optional) First operational port
TABLE_member	(Optional) Member ports info
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status
<i>age-of-channel</i>	(Optional) Age of port channel
<i>time-since-last-bundle</i>	(Optional) Time since last port bundled
<i>last-bundled-member</i>	(Optional) Last bundled member port
<i>time-since-last-unbundle</i>	(Optional) Time since last port un-bundled
<i>last-unbundled-member</i>	(Optional) Last unbundled member port
<i>protocol</i>	(Optional) Port channel protocol

Command Mode

- /exec

show port-channel load-balance

```
show port-channel load-balance { [ module <module> ] | { fex { all } } } [ __readonly__ <sys-cfg> {
<module-cfg> } + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> <ipv6-val> ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
load-balance	Show port-channel load balance
module	(Optional) slot
<i>module</i>	(Optional) Specify a module number
fex	FEX devices
all	Display all configured FEX port-channel LB
__readonly__	(Optional)
<i>sys-cfg</i>	(Optional) system wide load balance configuraton
<i>module-cfg</i>	(Optional) per module load balance configuraton
<i>non-ip-val</i>	(Optional) load balance setting for non-ip traffic
<i>non-ip-sel</i>	(Optional) non ip select
<i>ipv4-val</i>	(Optional) load balance setting for ipv4 traffic
<i>ipv4-sel</i>	(Optional) ip select
<i>ipv6-val</i>	(Optional) load balance setting for ipv6 traffic

Command Mode

- /exec

show port-channel load-balance forwarding-path1 interface src-interface

```
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id> |
src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6
<dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ether-type <ethertype> | ip-prot <prot> }
+ [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path1	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
vlan	VLAN - for dot1Q tagged packets at ingress
<i>vlan-id</i>	VLAN ID
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IP address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source Port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination Port
<i>l4-dst-port</i>	Destination L4 port

ether-type	Ethernet Type
<i>ethertype</i>	Ethernet Type
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
ip-proto	IP v4/v6 Protocol
<i>prot</i>	IP Protocol
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) port

Command Mode

- /exec

show port-channel load-balance forwarding-path interface

```
show port-channel load-balance forwarding-path { interface <ch-id> | hgig } { src-interface <src-if> | vlan
<vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> |
dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype> | protocol
<prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] + [ source-interface <if-id> ] [
__readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Hgig hashing result (only with RTAG7)
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address
l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	Destination L4 port

ethertype	Ethertype of the packet stream
<i>ethertype</i>	
src-interface	Optional source interface (physical switch port only)
<i>src-if</i>	Interface name
source-interface	(Optional) Source interface - Required paramter
<i>if-id</i>	(Optional) Interface name
protocol	Protocol
<i>prot</i>	
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

Command Mode

- /exec

show port-channel load-balance hardware forwarding-path interface source

```
show port-channel load-balance hardware forwarding-path { interface <ch-id> | hgig } { source-interface
<if-id> } { vlan <vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6
<src-ipv6> | dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype>
| protocol <prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] [ __readonly__ {
loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

Syntax Description

show	Show running system information
port-channel	Configure port channel parameters
load-balance	Show port-channel load balance
hardware	ASIC hardware based information
forwarding-path	Packet forwarding information
interface	Specify a port-channel number
<i>ch-id</i>	Port-Channel name
hgig	Higig hashing result (only with RTAG7)
source-interface	Source interface - Required paramter
<i>if-id</i>	Interface name
vlan	VLAN of the ingress packet i.e. when available
<i>vlan-id</i>	
src-mac	Source MAC Address
<i>src-mac</i>	Source MAC address
dst-mac	Destination MAC Address
<i>dst-mac</i>	Destination MAC address
src-ip	Source IPv4 address
<i>src-ip</i>	Source IP address in format i.i.i.i
dst-ip	Destination IPv4 address
<i>dst-ip</i>	Destination IP address in format i.i.i.i
src-ipv6	Source IPv6 address
dst-ipv6	Destination IPv6 address

l4-src-port	Source L4 port
<i>l4-src-port</i>	Source L4 port
l4-dst-port	Destination l4 port
<i>l4-dst-port</i>	Destination L4 port
ethertype	Ethertype of the packet stream
<i>ethertype</i>	
protocol	Protocol
<i>prot</i>	
module	(Optional) Module #
<i>module</i>	(Optional)
fex	(Optional) FEX devices
<i>fex-range</i>	(Optional) FEX device range
hgig-tgid	(Optional) Hgig #
<i>tgid</i>	(Optional)
__readonly__	(Optional)
loadbalance-algorithm	(Optional) load balance algorithm
<i>algorithm</i>	(Optional) load balance algorithm
outgoing-port-id	(Optional) outgoing port-id
<i>port</i>	(Optional) outgoing port-id

Command Mode

- /exec

show port-channel rbh-distribution

```
show port-channel rbh-distribution [ interface <if0> ] [ __readonly__ TABLE_channel <chan-id> <port> {
<rbh> } + <num_of_buckets> ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
rbh-distribution	Show RBH distribution for member ports
interface	(Optional) Specify a port-channel interface
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chan-id</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>num_of_buckets</i>	(Optional) Channel ID
<i>rbh</i>	(Optional) Channel ID

Command Mode

- /exec

show port-channel summary

```
show port-channel summary [ interface <if0> | controller ] [ __readonly__ TABLE_channel <group>
<port-channel> <layer> <status> <type> <prtcl> [ { TABLE_member <port> <port-status> } ] ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
summary	Show port-channel summary
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
controller	(Optional) Show controller configured port-channels
<i>__readonly__</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>group</i>	(Optional) Channel group number
<i>port-channel</i>	(Optional) Port channel
<i>type</i>	(Optional) Channel type
<i>prtcl</i>	(Optional) Channel protocol
<i>status</i>	(Optional) Channel status
<i>layer</i>	(Optional) Channel layer info
TABLE_member	(Optional) Member table
<i>port</i>	(Optional) Member port
<i>port-status</i>	(Optional) Member port status

Command Mode

- /exec

show port-channel traffic

```
show port-channel traffic [ interface <if0> ] [ __readonly__ TABLE_channel <chanId> <port> <rx-ucst>
<tx-ucst> <rx-mcst> <tx-mcst> <rx-bcst> <tx-bcst> ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
traffic	Show port-channel traffic statistics
__readonly__	(Optional)
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)
TABLE_channel	(Optional) Port-channel table
<i>chanId</i>	(Optional) Channel ID
<i>port</i>	(Optional) Member port
<i>rx-ucst</i>	(Optional) Received unicast
<i>tx-ucst</i>	(Optional) Transmitted unicast
<i>rx-mcst</i>	(Optional) Received multicast
<i>tx-mcst</i>	(Optional) Transmitted multicast
<i>rx-bcst</i>	(Optional) Received broadcast
<i>tx-bcst</i>	(Optional) Transmitted broadcast

Command Mode

- /exec

show port-channel usage

```
show port-channel usage [ __readonly__ <total-channel-number-used> { <used-range-low> [ <used-range-hi> ] } + { <unused-range-low> [ <unused-range-hi> ] } + ]
```

Syntax Description

show	Show running system information
port-channel	Show port-channel information
usage	Show port-channel number usage
<i>__readonly__</i>	(Optional)
<i>total-channel-number-used</i>	(Optional) Total used number of port-channels
<i>used-range-low</i>	(Optional) Used range low end value
<i>used-range-hi</i>	(Optional) Used range high end value
<i>unused-range-low</i>	(Optional) Un-used range low end value
<i>unused-range-hi</i>	(Optional) Un-used range high end value

Command Mode

- /exec

show port-license

show port-license

Syntax Description

show	Show running system information
port-license	Show port license information

Command Mode

- /exec

show port-license

show port-license

Syntax Description

show	Show running system information
port-license	Show port license information

Command Mode

- /exec

show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ <profile_name> <profile_id> <type> <desc>
<status> <max_ports> <min_ports> <inherit> <profile_cfg> <cmd_depth> <cmd_key> <parent_seqno>
<cmd_seqno> <cmd_attr> <form_type> <cmd_mask> <shadow_cmd> <cmd_flags> <eval_cfg> <intf>
<cap_l3> <cap_iscsi> <ctrl_sgid> <pkt_sgid> <sys_vlans> <portgrp> <pprole> <port_binding> ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>profile_id</i>	(Optional)
<i>type</i>	(Optional)
<i>desc</i>	(Optional)
<i>status</i>	(Optional)
<i>max_ports</i>	(Optional)
<i>min_ports</i>	(Optional)
<i>inherit</i>	(Optional)
<i>profile_cfg</i>	(Optional)
<i>cmd_depth</i>	(Optional)
<i>cmd_key</i>	(Optional)
<i>parent_seqno</i>	(Optional)
<i>cmd_seqno</i>	(Optional)
<i>cmd_attr</i>	(Optional)
<i>form_type</i>	(Optional)
<i>cmd_mask</i>	(Optional)
<i>shadow_cmd</i>	(Optional)
<i>cmd_flags</i>	(Optional)

<i>eval_cfg</i>	(Optional)
<i>intf</i>	(Optional)
<i>cap_l3</i>	(Optional) L3 Profile
<i>cap_iscsi</i>	(Optional) iSCSI cap
<i>ctrl_sgid</i>	(Optional) Control Vlan Pinned Sgid
<i>pkt_sgid</i>	(Optional) Packet Vlan Pinned Sgid
<i>sys_vlans</i>	(Optional) System Vlans
<i>portgrp</i>	(Optional) VMware Portgroup
<i>pprole</i>	(Optional) Port-profile Role
<i>port_binding</i>	(Optional) Port-binding

Command Mode

- /exec

show port-profile brief

```
show port-profile brief [ __readonly__ { TABLE_port_profile <profile_name> <type> <status>
<profile_cfg_cnt> <eval_cfg_cnt> <intf_cnt> <inherit_cnt> <header_flag> } { TABLE_intf_count <intf_type>
<intf_count> <tot_header_flag> } ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
brief	Brief info about profiles
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
TABLE_port_profile	(Optional)
<i>type</i>	(Optional)
<i>status</i>	(Optional)
<i>profile_cfg_cnt</i>	(Optional)
<i>eval_cfg_cnt</i>	(Optional)
<i>intf_cnt</i>	(Optional)
<i>inherit_cnt</i>	(Optional)
<i>header_flag</i>	(Optional)
TABLE_intf_count	(Optional)
<i>intf_type</i>	(Optional)
<i>intf_count</i>	(Optional)
<i>tot_header_flag</i>	(Optional)

Command Mode

- /exec

show port-profile expand-interface

```
show port-profile expand-interface [ name <all_profile_name> ] [ __readonly__ <profile_name> <intf>
<intf_cfg> ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
expand-interface	Active profile config applied in a interface
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
<i>profile_name</i>	(Optional)
<i>intf</i>	(Optional)
<i>intf_cfg</i>	(Optional)

Command Mode

- /exec

show port-profile sync-status

```
show port-profile sync-status [ interface <intfname> ] [ __readonly__ <intf> <status> <inherit> <sync_status>
<cached_cmds> <errors> <recovery> ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
sync-status	Interfaces out-of-sync with port-profiles
interface	(Optional) Interface name
<i>intfname</i>	(Optional) Name of interface
<i>__readonly__</i>	(Optional)
<i>intf</i>	(Optional)
<i>status</i>	(Optional)
<i>inherit</i>	(Optional)
<i>sync_status</i>	(Optional)
<i>cached_cmds</i>	(Optional)
<i>errors</i>	(Optional)
<i>recovery</i>	(Optional)

Command Mode

- /exec

show port-profile usage

```
show port-profile usage [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile <profile_name>
{ TABLE_interface <interface> } ]
```

Syntax Description

show	Show running system information
port-profile	Show port-profile
usage	List of interfaces inherited a profile
name	(Optional) port-profile name
<i>all_profile_name</i>	(Optional) Enter the name of the profile
<i>__readonly__</i>	(Optional)
TABLE_port_profile	(Optional)
TABLE_interface	(Optional)
<i>profile_name</i>	(Optional)
<i>interface</i>	(Optional)

Command Mode

- /exec

show port-security

```
show port-security [ __readonly__ { TABLE_eth_port_sec_interfaces <secure_port> <max_secure_addr>
<current_addr> <security_violation> <security_action> <num_val> <num_elems> <cmdid_show_index>
<port_state> } <total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_interfaces	(Optional) Displays the secured interfaces
<i>secure_port</i>	(Optional) Interface Index
<i>max_secure_addr</i>	(Optional) Maximum number of secured MAC addresses
<i>current_addr</i>	(Optional) Number of secured MAC addresses
<i>security_violation</i>	(Optional) Number of security violations
<i>security_action</i>	(Optional) Security Action Shutdown/Restrict/Protect
<i>num_val</i>	(Optional) Number of Values
<i>num_elems</i>	(Optional) Number of Elements
<i>cmdid_show_index</i>	(Optional) Index for the Interfaces
<i>port_state</i>	(Optional) Port security enabled or disabled
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address

```
show port-security address [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr> <type>
<if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> } <total_addr>
<max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
__readonly__	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
if_index	(Optional) Interface index
vlan_id	(Optional) vlan id
mac_addr	(Optional) mac address
type	(Optional) static/sticky/dyanmic MAC address
remain_age	(Optional) Remaining age
remote_learnt	(Optional) Remotely learnt
remote_aged	(Optional) Remotely Aged Out
num_elems	(Optional) Number of Elements
cmd_addr_index	(Optional) Index for the interface address
total_addr	(Optional) Total number of secured MAC addresses
max_sys_limit	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addrs
<vlan_id> <mac_addr> <type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems>
} <total_addr> <max_sys_limit> <first> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
interface	Show secure interface
<i>interface-id</i>	ethernet
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<i>remote_learnt</i>	(Optional) Remotely learnt
<i>remote_aged</i>	(Optional) Remotely Aged Out
<i>num_elems</i>	(Optional) Number of Elements
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port
<i>first</i>	(Optional) To identify the first entry

Command Mode

- /exec

show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <config_port_security> <oper_port_security>
<port_status> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

Syntax Description

<code>port-security</code>	Show secure port information
<code>interface</code>	Show secure interface
<i>interface-id</i>	ethernet
<code>__readonly__</code>	(Optional)
<i>config_port_security</i>	(Optional) Port Security configuration is Enabled/Disabled
<i>oper_port_security</i>	(Optional) Port Security is Operationally Enabled/Disabled
<i>port_status</i>	(Optional) Secure Up/Down
<i>violation_mode</i>	(Optional) Shutdown/Restrict/Protect
<i>aging_time</i>	(Optional) Aging time in minutes
<i>aging_type</i>	(Optional) Absolute/Inactivity
<i>max_mac_addr</i>	(Optional) Configured Maximum
<i>total_sec_addrs</i>	(Optional) Total number of secured MAC addresses
<i>conf_num_addrs</i>	(Optional) Number of configured MAC addresses
<i>num_sticky_addrs</i>	(Optional) Number of sticky MAC addresses
<i>trap_count</i>	(Optional) Trap Count

Command Mode

- /exec

show port-security state

show port-security state [__readonly__ <status>]

Syntax Description

port-security	Port security related command
state	port security state
__readonly__	(Optional)
<i>status</i>	(Optional) show port-security

Command Mode

- /exec

show port index-allocation

show port index-allocation

Syntax Description

show	Show running system information
port	Show port information
index-allocation	Show port index allocation information

Command Mode

- /exec

show port index-allocation startup

show port index-allocation startup

Syntax Description

show	Show running system information
port	Show port information
index-allocation	Show port index allocation information
startup	Show startup port index allocation information

Command Mode

- /exec

show port naming

show port naming

Syntax Description

show	Show running system information
port	Show port information
naming	Show port naming information

Command Mode

- /exec

show privilege

show privilege

Syntax Description

show	Show running system information
privilege	Display privilege information

Command Mode

- /exec

show processes

```
show processes [ __readonly__ { [ TABLE_processes <pid> <state> <pc> <start_cnt> <tty> <p_type>
<process> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
__readonly__	(Optional)
TABLE_processes	(Optional) all process information
<i>pid</i>	(Optional) process id
<i>state</i>	(Optional) process state
<i>pc</i>	(Optional) pc register
<i>start_cnt</i>	(Optional) TBD
<i>tty</i>	(Optional) TBD
<i>p_type</i>	(Optional) process type
<i>process</i>	(Optional) process name

Command Mode

- /exec

show processes cpu

```
show processes cpu [ sort ] [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked> <usecs>
<onsec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
sort	(Optional) Show processes CPU Info (Sorted by Cpu Util with time base)
__readonly__	(Optional)
TABLE_process_cpu	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>onsec</i>	(Optional) fivesec
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

Command Mode

- /exec

show processes cpu history

show processes cpu history

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
history	Show processes CPU Util History

Command Mode

- /exec

show processes cpu module

```
show processes cpu module <i0> [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked>
<usecs> <oneseq> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
cpu	Show processes CPU Info
module	processes CPU Info
<i>i0</i>	module number
<i>__readonly__</i>	(Optional)
<i>TABLE_process_cpu</i>	(Optional) all process memory
<i>pid</i>	(Optional) process id
<i>runtime</i>	(Optional) Runtime
<i>invoked</i>	(Optional) Invoked
<i>usecs</i>	(Optional) usecs
<i>oneseq</i>	(Optional) oneseq
<i>process</i>	(Optional) name of the process
<i>user_percent</i>	(Optional) user
<i>kernel_percent</i>	(Optional) kernel
<i>idle_percent</i>	(Optional) idle

Command Mode

- /exec

show processes log

```
show processes log [ __readonly__ { [ TABLE_processes_log <vdc> <process> <pid> <normal_exit> <stack>
<core> <create_time> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
<i>__readonly__</i>	(Optional)
TABLE_processes_log	(Optional) all processes log
<i>vdc</i>	(Optional) vdc
<i>process</i>	(Optional) vdc process name
<i>pid</i>	(Optional) pid
<i>normal_exit</i>	(Optional) process exit
<i>stack</i>	(Optional) stack
<i>core</i>	(Optional) core
<i>create_time</i>	(Optional) log create time

Command Mode

- /exec

show processes log details

```
show processes log details [ __readonly__ { line_in_log_detail <line_in_file> } ]
```

Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
details	Show detail of all logs with stack
__readonly__	(Optional)
line_in_log_detail	(Optional)
<i>line_in_file</i>	(Optional) each line

Command Mode

- /exec

show processes log pid

```
show processes log pid <i0> [ __readonly__ { TABLE_line_in_log_pid <line_in_file> } ]
```

Syntax Description

show	Show running system information
processes	Show processes
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i0</i>	pid of the process
<code>__readonly__</code>	(Optional)
TABLE_line_in_log_pid	(Optional)
<i>line_in_file</i>	(Optional) each line

Command Mode

- /exec

show processes log vdc-all

```
show processes log vdc-all [ __readonly__ { [ TABLE_processes_log_vdc_all <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

Syntax Description

TABLE_processes_log_vdc_all	(Optional) all processes log vdc all
show	Show running system information
processes	Show processes
log	Show information about process logs
vdc-all	Show information about process logs in all vdc's
__readonly__	(Optional)
vdc	(Optional) vdc process name
process	(Optional) vdc process name
pid	(Optional) process id
normal_exit	(Optional) process exit
stack	(Optional) stack
core	(Optional) core
create_time	(Optional) log create time

Command Mode

- /exec

show processes memory

```
show processes memory [ __readonly__ { TABLE_process_memory <mem_pid> <mem_alloc> <mem_limit>
<mem_used> <stack_base_ptr> <process> } ]
```

Syntax Description

show	Show running system information
processes	Show processes
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

Command Mode

- /exec

show processes memory clis

show processes memory clis [shared | private]

Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
clis	
shared	(Optional) Display CLIS shared memory information
private	(Optional) Display CLIS private memory information

Command Mode

- /exec

show processes memory shared

```
show processes memory shared [ detail | dynamic ] [ __readonly__ TABLE_process_tag [ <process-tag-out>
] [ <process-memory-share-dynamic-component-str> ] [ <process-memory-share-dynamic-shared-memory-str>
] [ <process-memory-share-dynamic-current-size-str> ] [ <process-memory-share-dynamic-max-size-str> ]
] [ <process-memory-share-dynamic-used-str> ] [ <process-memory-share-component-str> ] [
<process-memory-share-shared-memory-str> ] [ <process-memory-share-size-str> ] [
<process-memory-share-used-str> ] [ <process-memory-share-available-str> ] [ <process-memory-share-ref-str>
] [ <process-memory-share-byte-set-address-str> ] [ <process-memory-share-byte-set-count-str> ] [
<process-memory-share-address-str> ] [ <process-memory-share-kbytes-1-str> ] [
<process-memory-share-kbytes-2-str> ] [ <process-memory-share-kbytes-3-str> ] [
<process-memory-share-count-str> ] [ { TABLE_SMMITEM <process-memory-share-smr-name> } ] [ {
TABLE_SHOWPROC <process-memory-share-table-showproc-key> [ { TABLE_SHOWONEDYNAMIC
[ <process-memory-share-component> ] [ <process-memory-share-shared-memory> ] [
<process-memory-share-current-size> ] [ <process-memory-share-max-size> ] [ <process-memory-share-used>
] ] ] [ { TABLE_ONEITEM [ <process-memory-share-proc-smr-name> ] [ <process-memory-share-smr-addr>
] [ <process-memory-share-smr-size> ] [ <process-memory-share-smr-star-char> ] [
<process-memory-share-smr-empty-char> ] [ <process-memory-share-smr-used> ] [
<process-memory-share-smr-avail> ] [ <process-memory-share-smr-ref-count> ] [
<process-memory-share-dynamic-smr-name> } ] ] [ { TABLE_ONEITEMDYNAMIC [
<process-memory-share-dynamic-smr-addr> ] [ <process-memory-share-dynamic-smr-size> ] [
<process-memory-share-dynamic-plus-char> ] [ <process-memory-share-max-mem-size-str> ] [
<process-memory-share-dynamic-smr-used> ] [ <process-memory-share-dynamic-smr-avail> ] [
<process-memory-share-dynamic-smr-ref-count> ] [ <process-memory-share-region-smr-name> } ] ] ] [
<process-memory-share-total-shm-size> ] [ <process-memory-share-total-shm-used> ] [
<process-memory-share-total-shm-avail> ] ] ]
```

Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
shared	Display shared memory info
detail	(Optional) Display shared memory in bytes instead of default kbytes
dynamic	(Optional) Display details of dynamic shared memory segments
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>process-memory-share-dynamic-component-str</i>	(Optional)
<i>process-memory-share-dynamic-shared-memory-str</i>	(Optional)
<i>process-memory-share-dynamic-current-size-str</i>	(Optional)

<i>process-memory-share-dynamic-max-size-str</i>	(Optional)
<i>process-memory-share-dynamic-used-str</i>	(Optional)
<i>process-memory-share-component-str</i>	(Optional)
<i>process-memory-share-shared-memory-str</i>	(Optional)
<i>process-memory-share-size-str</i>	(Optional)
<i>process-memory-share-used-str</i>	(Optional)
<i>process-memory-share-available-str</i>	(Optional)
<i>process-memory-share-ref-str</i>	(Optional)
<i>process-memory-share-byte-set-address-str</i>	(Optional)
<i>process-memory-share-byte-set-count-str</i>	(Optional)
<i>process-memory-share-address-str</i>	(Optional)
<i>process-memory-share-kbytes-1-str</i>	(Optional)
<i>process-memory-share-kbytes-2-str</i>	(Optional)
<i>process-memory-share-kbytes-3-str</i>	(Optional)
<i>process-memory-share-count-str</i>	(Optional)
TABLE_SMMITEM	(Optional)
<i>process-memory-share-smr-name</i>	(Optional)
TABLE_SHOWPROC	(Optional)
<i>process-memory-share-table-showproc-key</i>	(Optional)
TABLE_SHOWONEDYNAMIC	(Optional)
<i>process-memory-share-component</i>	(Optional)
<i>process-memory-share-shared-memory</i>	(Optional)
<i>process-memory-share-current-size</i>	(Optional)
<i>process-memory-share-max-size</i>	(Optional)
<i>process-memory-share-used</i>	(Optional)
TABLE_ONEITEM	(Optional)
<i>process-memory-share-proc-smr-name</i>	(Optional)
<i>process-memory-share-smr-addr</i>	(Optional)
<i>process-memory-share-smr-size</i>	(Optional)

<i>process-memory-share-smr-star-char</i>	(Optional)
<i>process-memory-share-smr-empty-char</i>	(Optional)
<i>process-memory-share-smr-used</i>	(Optional)
<i>process-memory-share-smr-avail</i>	(Optional)
<i>process-memory-share-smr-ref-count</i>	(Optional)
TABLE_ONEITEMDYNAMIC	(Optional)
<i>process-memory-share-dynamic-smr-name</i>	(Optional)
<i>process-memory-share-dynamic-smr-addr</i>	(Optional)
<i>process-memory-share-dynamic-smr-size</i>	(Optional)
<i>process-memory-share-dynamic-plus-char</i>	(Optional)
<i>process-memory-share-max-mem-size-str</i>	(Optional)
<i>process-memory-share-dynamic-smr-used</i>	(Optional)
<i>process-memory-share-dynamic-smr-avail</i>	(Optional)
<i>process-memory-share-dynamic-smr-ref-count</i>	(Optional)
<i>process-memory-share-region-smr-name</i>	(Optional)
<i>process-memory-share-total-shm-size</i>	(Optional)
<i>process-memory-share-total-shm-used</i>	(Optional)
<i>process-memory-share-total-shm-avail</i>	(Optional)

Command Mode

- /exec

show processes vdc

show processes vdc <e-vdc2>

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>

Command Mode

- /exec

show processes vdc cpu

show processes vdc <e-vdc2> cpu

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
cpu	Show processes CPU Info

Command Mode

- /exec

show processes vdc log

show processes vdc <e-vdc2> log

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs

Command Mode

- /exec

show processes vdc log details

show processes vdc <e-vdc2> log details

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
details	Show detail of all logs with stack

Command Mode

- /exec

show processes vdc log pid

show processes vdc <e-vdc2> log pid <i1>

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Show information about process logs
pid	Show detail log info about a specific process
<i>i1</i>	pid of the process

Command Mode

- /exec

show processes vdc memory

```
show processes vdc <e-vdc2> memory [ __readonly__ { [ TABLE_process_memory <mem_pid> <mem_alloc>
<mem_limit> <mem_used> <stack_base_ptr> <process> ] [ <sum_mem_malloced> ] } ]
```

Syntax Description

show	Show running system information
processes	Show processes
vdc	Show processes in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
memory	Show processes Memory Info
<i>__readonly__</i>	(Optional)
TABLE_process_memory	(Optional) all process memory
<i>mem_pid</i>	(Optional) process id
<i>mem_alloc</i>	(Optional) allocated memory
<i>mem_limit</i>	(Optional) memory limit
<i>mem_used</i>	(Optional) memory used
<i>stack_base_ptr</i>	(Optional) stack and base pointer
<i>process</i>	(Optional) name of the process

Command Mode

- /exec

show processes version

```
show processes { version | threads } [ <comp-string> ] [ __readonly__ TABLE_component <component-name>
<version> <buildinfo> <sourceversion> ]
```

Syntax Description

show	Show running system information
processes	Display process information
version	Display system release information
threads	Threads Info
<i>comp-string</i>	(Optional) Component name for detailed information
<i>__readonly__</i>	(Optional)
<i>TABLE_component</i>	(Optional)
<i>component-name</i>	(Optional)
<i>version</i>	(Optional)
<i>buildinfo</i>	(Optional)
<i>sourceversion</i>	(Optional)

Command Mode

- /exec

show pss debug

show pss debug

Syntax Description

show	Show running system information
pss	display pss information
debug	display pss debug configuration

Command Mode

- /exec

show ptp brief

```
show ptp brief [ __readonly__ { TABLE_ptp <ptp-ifindex> <state> } <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>brief</code>	port states in brief
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>ptp-end</code>	(Optional) End of table
<code>state</code>	(Optional) BMC state

Command Mode

- /exec

show ptp clock

```
show ptp clock [ __readonly__ <clock-id> <domain-id> <num-ports> <priority1> <priority2> <class>
<accuracy> <scaled-log-variance> <offset-from-master> <mean-path-delay-to-master> <steps-removed> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock	Set local clock attributes
<i>__readonly__</i>	(Optional) Read only
<i>domain-id</i>	(Optional) Domain Id
<i>clock-id</i>	(Optional) Clock Id
<i>priority1</i>	(Optional) Priority 1
<i>priority2</i>	(Optional) Priority 2
<i>num-ports</i>	(Optional) Number of PTP ports
<i>class</i>	(Optional) Class
<i>accuracy</i>	(Optional) Clock accuracy
<i>scaled-log-variance</i>	(Optional) scaled log variance
<i>offset-from-master</i>	(Optional) Offset from master
<i>mean-path-delay-to-master</i>	(Optional) mean path delay to master
<i>steps-removed</i>	(Optional) Steps removed

Command Mode

- /exec

show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ interface <if0> ] [ __readonly__ { TABLE_ptp <interface-name>
<clock-id> <priority1> <priority2> <class> <accuracy> <scaled-log-variance> <steps-removed> <is-gm> }
<ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>clock</code>	Set local clock attributes
<code>foreign-masters</code>	foreign-masters
<code>record</code>	record
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>interface-name</code>	(Optional) interface name
<code>clock-id</code>	(Optional) Clock Id
<code>priority1</code>	(Optional) Priority 1
<code>priority2</code>	(Optional) Priority 2
<code>class</code>	(Optional) Class
<code>accuracy</code>	(Optional) Clock accuracy
<code>scaled-log-variance</code>	(Optional) scaled log variance
<code>steps-removed</code>	(Optional) Steps removed
<code>is-gm</code>	(Optional) Is Grandmaster
<code>ptp-end</code>	(Optional) End of table

Command Mode

- /exec

show ptp corrections

```
show ptp corrections [ __readonly__ { TABLE_ptp <intf-name> <sup-time> <correction-val>
<mean-path-delay> } <ptp-end> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
corrections	Display last few corrections
TABLE_ptp	(Optional) ptp table
<i>intf-name</i>	(Optional) interface name
<i>sup-time</i>	(Optional) sup time
<i>correction-val</i>	(Optional) correction value
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp counters interface

```
show ptp counters { interface <if0> | all } [ { detail | ipv4 <ip> } ] [ __readonly__ [ TABLE_ptp
<interface_name> <accepted-ip> <tx-announce-pkts> <rx-announce-pkts> <tx-sync-pkts> <rx-sync-pkts>
<tx-follow-up-pkts> <rx-follow-up-pkts> <tx-delay-req-pkts> <rx-delay-req-pkts> <tx-delay-resp-pkts>
<rx-delay-resp-pkts> <tx-pdelay-req-pkts> <rx-pdelay-req-pkts> <tx-pdelay-resp-pkts> <rx-pdelay-resp-pkts>
<tx-pdelay-follow-up-pkts> <rx-pdelay-follow-up-pkts> <tx-mgmt-pkts> <rx-mgmt-pkts> ] <ptp-end> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
__readonly__	(Optional) Read Only
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	
detail	(Optional) Show detail
ipv4	(Optional) IP address for the stat info
<i>ip</i>	(Optional) IPv4 address (A.B.C.D)
TABLE_ptp	(Optional) ptp table
<i>interface_name</i>	(Optional) interface name
<i>accepted-ip</i>	(Optional) Accepted IP in unicast mode
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp packet-trace

```
show ptp packet-trace [ __readonly__ { TABLE_ptp <intf-name> <sup-time> <pkt_dir> <pkt_type> <pkt_info>
} <ptp-header> <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>__readonly__</code>	(Optional) Read Only
<code>packet-trace</code>	Display last few pkt traces
<code>TABLE_ptp</code>	(Optional) ptp table
<code>intf-name</code>	(Optional) interface name
<code>sup-time</code>	(Optional) sup time
<code>pkt_dir</code>	(Optional) pkt_dir
<code>pkt_type</code>	(Optional) pkt_type
<code>pkt_info</code>	(Optional) pkt_info
<code>ptp-header</code>	(Optional) Start of table
<code>ptp-end</code>	(Optional) End of table

Command Mode

- /exec

show ptp parent

```
show ptp parent [ __readonly__ <clock-id> <port-num> <obs-parent-offset> <obs-parent-clk-phase-chg>
<parent-ip> <gm-id> <gm-class> <gm-accuracy> <gm-scaled-log-variance> <gm-priority1> <gm-priority2>
]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
parent	parent clock
__readonly__	(Optional) Read only
<i>clock-id</i>	(Optional) Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>obs-parent-offset</i>	(Optional) observed parent offset
<i>obs-parent-clk-phase-chg</i>	(Optional) observed parent clock phase change
<i>parent-ip</i>	(Optional) Parent clock IP
<i>gm-id</i>	(Optional) Grandmaster Id
<i>gm-class</i>	(Optional) Class
<i>gm-accuracy</i>	(Optional) Clock accuracy
<i>gm-scaled-log-variance</i>	(Optional) scaled log variance
<i>gm-priority1</i>	(Optional) GM Priority 1
<i>gm-priority2</i>	(Optional) GM Priority 2

Command Mode

- /exec

show ptp port interface

```
show ptp port interface <if0> [ __readonly__ <intf-name> <clock-id> <port-num> <version> <transport-mode>
<accepted-ip> <state> <vlan> <delay-req-intv> <ann-rx-tout> <peer-mean-path-delay> <ann-intv> <sync-intv>
<delay-mechanism> <peer-delay-req-intv> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
port	port
interface	Enter the port interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>intf-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Port ID: Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>version</i>	(Optional) version
<i>transport-mode</i>	(Optional) Transport mode
<i>accepted-ip</i>	(Optional) Accepted IPs
<i>state</i>	(Optional) BMC state
<i>vlan</i>	(Optional) Vlan
<i>delay-req-intv</i>	(Optional) log mean delay req interval
<i>ann-rx-tout</i>	(Optional) announce receipt timeout
<i>peer-mean-path-delay</i>	(Optional) peer mean path delay
<i>ann-intv</i>	(Optional) announce interval
<i>sync-intv</i>	(Optional) sync interval
<i>delay-mechanism</i>	(Optional) delay mechanism
<i>peer-delay-req-intv</i>	(Optional) peer delay req interval

Command Mode

- /exec

show ptp time-property

```
show ptp time-property [ __readonly__ <current-utc-offset-valid> <current-utc-offset> <leap-59> <leap-61>
<time-traceable> <freq-traceable> <ptp-timescale> <time-source> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
time-property	time property
<i>__readonly__</i>	(Optional) Read only
<i>current-utc-offset-valid</i>	(Optional) current_utc_offset_valid
<i>current-utc-offset</i>	(Optional) current_utc_offset
<i>leap-59</i>	(Optional) leap-59
<i>leap-61</i>	(Optional) leap-61
<i>time-traceable</i>	(Optional) time-traceable
<i>freq-traceable</i>	(Optional) freq-traceable
<i>ptp-timescale</i>	(Optional) ptp-timescale
<i>time-source</i>	(Optional) time-source

Command Mode

- /exec

■ show ptp time-property